



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/849,750	05/04/2001	David W. Jensen	00CR032/KE	2666
7590 04/18/2005		EXAMINER		
Rockwell Collins, Inc.			COUSO, YON JUNG	
Attention: Kyle Eppele M/S 124-323			ART UNIT	PAPER NUMBER
400 Collins Rd. NE Cedar Rapids, IA 52498			2625	
			DATE MAILED: 04/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
Office Action Summary		09/849,750	JENSEN ET AL.			
		Examiner	Art Unit			
		Yon Couso	2625			
Period fo	The MAILING DATE of this communication apor Reply	pears on the cover sheet with the c	correspondence address			
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a repropert of the provision of the period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing the patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. C) (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 10/2	<u>28/04</u> .				
2a)⊠	This action is FINAL . 2b) This	s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	•	•			
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 1-6,8-13 and 15-20 is/are pending in 4a) Of the above claim(s) is/are withdra Claim(s) 9-13 and 15-19 is/are allowed. Claim(s) 1-6,8 and 20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.				
Applicati 	ion Papers					
·	The specification is objected to by the Examine		_			
— <u>10)</u>	The-drawing(s)-filed-onis/are:-a)	•				
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the E	, , , , , ,	,			
Priority ι	under 35 U.S.C. § 119	,				
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Application trity documents have been receive nu (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4)				
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)			

Art Unit: 2625

1. Applicant's arguments with respect to claims 1 and 20 have been considered but are moot in view of the new ground(s) of rejection.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6, 8, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Franke et al (US Patent No. 6,411,328) in view of Paterson et al (US Patent No. 6,259,379).

Regarding claims 1 and 20, Franke discloses a vehicle control system comprising: the image capture device being capable to capture an image of the portion of the system being monitored (23, 80, and 210 in figure 1); an image processing assembly for processing the image captured by the image capture

Art Unit: 2625

device (106 in figure 1); a warning device for providing a warning to the user (212 in figure 1); wherein the image processing assembly processes the image captured by the image capture device in real time for determining if the warning condition exist and upon determining if the warning condition exists causes the warning device to provide a warning to the user (abstract, line 5-9; column 12, lines 18-22; and column 12, line 64-column 13, line 2). Even though Franke does not teach details on verifying the existence of warning condition. Franke clearly determining if the warning condition exists (abstract, line 5-9; column 12. lines 18-22; and column 12, line 64-column 13, line 2). Paterson teaches verifying the existence of warning condition by comparing the values to appropriate reference values before issuing the warning signal to the user (column 5, line 66-column 6, line 20). Given the reference at the time the invention was made, it would have been obvious to one of ordinary skill in the art to incorporate Paterson's verification technique to increase the quality of the warning system.

As to claim 3, Franke discloses the warning device comprising a display displaying the image captured by the image capturing device to the user (28 in figure 1).

As to claim 6, Franke discloses image capture device comprising a video camera, wherein the captured image being comprised of at least one of a continuous video and sampled frames of a continuous video (23 in figure 1 and column 13, lines 55-64).

Art Unit: 2625

As to claim 4, Franke discloses querying the user to determine if the image should be displayed and displaying the image to the user if the user wishes the image to be displayed (column 14, lines 26-42).

As to claim 5, Franke discloses processing of the captured image comprising at leas tone of processing a fusion of at least two images received from the two image capture devices and processing a fusion of an image and a measured parameter (column 12, lines 24-42).

As to claim 2, Franke does not teach details on a memory for storing the reference portion of the image and comparing the captured image with reference image. Even though Franke does not teach details on how the system detects, locates, and characterizes traffic-related incidents, it is clear from the disclose that the digital computer means in Franke's system performs image processing equivalent to image comparison in order to detect, locate, and characterize traffic-related incidents. Schofield discloses a memory for storing the reference portion of the image (column 19, lines 11-31) and comparing the captured image with reference image (abstract, lines 1-10). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine image comparison technique taught in Schofield's into Franke's system of detecting, locating, and characterizing traffic-related incidents because detecting, locating, and characterizing traffic-related incidents would require some kind of comparison of image data to the reference image as in Schofield to achieve this objective.

Art Unit: 2625

As to claim 8, Franke teaches the captured image comprises at least one of an optical image, an infrared image, an ultra-violet image, and an image formed using non-visible wavelength of electromagnetic radiation (23, 80 and 210 in figure 1).

- 4. Claims 9-13, 15-19 are allowed.
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ishihara et al is also cited.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yon Couso whose telephone number is (571) 272-7448. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

Art Unit: 2625

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YJC

April 14, 2005

YON J. COUSO PRIMARY EXAMINER